Assignment-2019-2020

Master of Science Food and Nutrition (M.Sc. FN)

Subject : Food and Nutrition Course Title : Applied Physiology			Subject Code: M.Sc. FN 1.1 Course Code: M.Sc. FN 1.1	
	Section – A		Maximum Marks: 30	
			Maximum Marks: 18	
No	te :	Long Answer type Questions. Answer should be given in 800 Answer all questions. All questions are compulsory	to 1000 words.	
1-	Ш	ustrate and label the four chambers of hearts. Briefly describe	the blood flow in the heart. 6	
2-	a-	Differentiate between the bronchi and bronchioles.	6	
	b-	Explain the following terms and its significance-		
		Oxygen dissociation curve. Pulmonary volumes.		
3-	W	rite down the functions and hormones secreted by the following	g glands- 6	
	a. b. c.	Thyroid gland Adrenal gland Pituitary gland		
		Section – B		
			Maximum Marks: 12	
No	te :	Short Answer type Questions. Answer should be given in 200 All questions are compulsory	to 300 words.	
4-	Brie	fly explain the physiology of lactation.	2	
5- \	5- What type hormones are Secreted by the placenta and mention their role also. 2			
	6- What is mitosis? Explain its phases. 2			
	7- Explain the significance of thalamus and Hypothalamus in our brain. 2			
	8- List the functions of bile. 2			
9- \	9- What is cardiac output? How is it calculated? 2			

Assignment-2019-2020

Master of Science Food and Nutrition (M.Sc. FN)

Subject: Food and Nutrition Subject Code: M.Sc. FN **Course Title:** Advanced Nutritional Biochemistry Course Code: M.Sc. FN 1.2 **Maximum Marks: 30** Section - A **Maximum Marks: 18** Note: Long Answer type Questions. Answer should be given in 800 to 1000 words. Answer all questions. All questions are compulsory What are monosaccharide's, Polysaccharides and oligosaccharides? Give examples with their chemical structure. 6 2- What are the chemical active forms of Thiamine, Riboflavin and Niacin? Mention their role in metabolisms. 6 3- Write down the significance of citric acid cycle. Describe the reactions involved in ATP generation in the cycle. 6 Section - B **Maximum Marks: 12** Note: Short Answer type Questions. Answer should be given in 200 to 300 words. All questions are compulsory 4- Discuss briefly the chemistry and functions of phospholipids. 2 2 5- Present the structure and classification of nucleic acid. 6- How is biosynthesis of cholesterol regulated by the amount of cholesterol in diet 2 7- Define glycolysis and gluconeogenesis. 2 8- Write down the functions of plasma proteins. 2 2 9- Define proteoglycans.

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Master of Science Food and Nutrition (M.Sc. FN)

Subject: Food and Nutrition Subject Code: M.Sc. FN **Course Title: Assessment of Nutritional Status** Course Code: M.Sc. FN 1.3 **Maximum Marks: 30** Section - A **Maximum Marks: 18** Note: Long Answer Question. Answer should be given in 800 to 1000 words. Answer all questions. All questions are compulsory Mention various methods of nutritional assessment. Elaborate any two methods. 6 2- Discuss in detail the importance of nutritional assessment for healthy as well as hospitalized 6 person. 3- What is Nutrition Surveillance? Mention any four agencies/organizations involved in nutrition Monitoring /Surveillance in India and type of information collected by them. 6 Section - B **Maximum Marks: 12** Note: Short Answer type Questions. Answer should be given in 200 to 300 words. All questions are compulsory 4- Mention 3 main purpose of nutritional assessment. 2 5- Write a short note on anthropometry. 2 2 6- What is basic concept of Nutritional Surveillance? 7- What is need assessment? 2 8- List the methods used for assessing dietary intake at various levels. 2 9- Define rapid assessment and PRA. 2

Assignment-2019-2020

Master of Science Food and Nutrition (M.Sc. FN)

Subject: Food and Nutrition Subject Code: M.Sc. FN Course Title: Advance Food Analysis Course Code: M.Sc. FN 1.4 **Maximum Marks: 30** Section - A **Maximum Marks: 18** Note: Long Answer type Questions. Answer should be given in 800 to 1000 words. Answer all questions. All questions are compulsory 1- Discuss in detail the different Spectrometric methods. 6 2- What is the importance of instrumental measurement of texture of foods dough, fruits and Vegetables and dairy products? 6 3- Write in detail about chromatographic separations. 6 Section - B **Maximum Marks: 12** Note: Short Answer type Questions. Answer should be given in 200 to 300 words. All questions are compulsory 4- What is separation Techniques of food analysis? 2 5- Write a short note on Infrared Spectrometry. 2 2 6- List the major component of gas chromatography. 7- Briefly describe the use of Radiochemical methods for food analysis. 2 8- Describe the functions of Refractometry. 2

2

9- Which instrument is used to measure septic gravity and melting Point?

Assignment- 2019-2020

Master of Science Food and Nutrition (M.Sc. FN)

Subject: Food and Nutrition Subject Code: M.Sc. FN Course Title: Food Safety and Food Microbiology Course Code: M.Sc. FN 1.5 **Maximum Marks: 30** Section - A **Maximum Marks: 18** Note: Long Answer type Questions. Answer should be given in 800 to 1000 words. Answer all questions. All questions are compulsory 1- Name a few diseases which are caused due to parasitic infection. Discuss any two in detail. 6 2- Elaborate the factors affecting the growth of micro organisms. 6 3- Explain the term and their significance in the context of food preservation. 6 1. Pasteurization 2. Fermentation 3. Irradiation Section - B **Maximum Marks: 12** Note: Short Answer type Questions. Answer should be given in 200 to 300 words. All questions are compulsory 4- What are the common hazards of food safety? 2 5- What do you understand by the positive aspects of microbial growth? 2 6- Enumerate the role of bacteria in spoilage of fruits and vegetables. 2 7- Suggest measures to reduce exposure to chemical contamination from the environment. 2 8- Define food contamination. 2 9- Enlist a few general requirements that are specific to the storage of foods. 2

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Master of Science Food and Nutrition (M.Sc. FN)

Subject: Food and Nutrition Subject Code: M.Sc. FN Course Title: Food Preservation Technology Course Code: M.Sc. FN 1.7 **Maximum Marks: 30** Section - A **Maximum Marks: 18** Note: Long Answer type Questions. Answer should be given in 800 to 1000 words. Answer all questions. All questions are compulsory 1- Describe the need and importance of food preservation. Explain with examples. 6 2- Describe various types of food preservation methods. 6 Describe Indigenous and modern methodology of food preservation techniques. 6 Section - B **Maximum Marks: 12** Note: Short Answer type Questions. Answer should be given in 200 to 300 words. All questions are compulsory 4- Explain pasteurization. 2 5- Explain meat and meat products preservation and processing. 2 2 6- Explain about fermentation with examples. 7- Explain about fortification with examples. 2 8- Explain Indigenous methods of grain storage. 2 9- Briefly explain the principle of food preservation. 2

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Master of Science Food and Nutrition (M.Sc. FN)

Subject: Food and Nutrition Subject Code: M.Sc. FN **Course Title:** Dairy Technology Course Code: M.Sc. FN 1.8 **Maximum Marks: 30** Section - A **Maximum Marks: 18** Note: Long Answer type Questions. Answer should be given in 800 to 1000 words. Answer all questions. All questions are compulsory 1- Explain the need and importance of dairy technology. 6 2- Explain the nutritional aspects of milk and its indigenes product. 6 3- Explain the importance of milk for the human health. 6 Section - B **Maximum Marks: 12** Note: Short Answer type Questions. Answer should be given in 200 to 300 words. All questions are compulsory 4- Discuss about pasteurization. 2 5- Discuss about homogenization. 2 2 6- Explain about fortified milk. 7- Write about dehydrated milk product. 2 8- Write about the skim milk. 2 9- Write about the soya milk. 2